

## LOW NOISE TRANSFORMER

ABSTRACT

An electrical transformer comprising a tank containing transformer fluid, a transformer core and winding subassembly disposed in said transformer fluid within and spaced apart from said tank, active means, disposed in said transformer fluid within said tank, for varying the volume of said transformer fluid in order to reduce pressure waves generated by the vibration of said core and winding subassembly during electromagnetic operation. The active means comprise at least a cell having a main body and a corrugated membrane connected to said main body in order to realize a sealed container able to maintain a low pressure atmosphere inside and actuating means placed inside said sealed container and solidly connected to said corrugated membrane.